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7. Mississippi showed the highest percentage of infection, 31.2 per cent, while North Carolina showed the lowest (7.8 per cent) in these studies.

8. The percentages of infection according to places varied from 1.7 per cent (Plateau, Ala.) to 40.9 per cent (for Yazoo Valley, Miss.).

9. In establishing an index in the United States for comparative and economic studies, the examination should include adults as well as children; in other words, a representative index must include all age groups.

10. It is estimated that 1 of 4 infected persons harbors the sexual forms (gametocyte) necessary for infecting a malaria bearing mosquito. This would give an average of 1 person in every 32 (of the 13,526 examined) to be potential malaria carriers at all times.

PLAGUE-PREVENTION WORK.

CALIFORNIA.

The following report of plague-prevention work in California for the week ended March 11, 1916, was received from Surg. Boggess, of the United States Public Health Service, in charge of the work:

SAN FRANCISCO, CAL.		SAN FRANCISCO, CAL.—Continued.	
RAT PROOFING.		RAT PROOFING—continued.	
New buildings:		New garbage cans stamped approved.....	575
Inspections of work under construction.....	151	Nuisances abated.....	299
Basements concreted (square feet, 18,640).....	19	OPERATIONS ON THE WATER FRONT.	
Floors concreted (square feet, 29,050).....	15	Vessels inspected for rat guards.....	21
Yards, passageways, etc. (square feet, 13,183).....	30	Reinspections made on vessels.....	30
Total area of concrete laid (square feet).....	60,873	New rat guards procured.....	6
Class A, B, and C (fireproof) buildings:		Defective rat guards repaired.....	11
Inspections made.....	151	Rats trapped on wharves and water front..	28
Roof and basement ventilators, etc., screened.....	1,060	Rats trapped on vessels.....	34
Wire screening used (square feet).....	4,860	Traps set on wharves and water front.....	175
Openings around pipes, etc., closed with cement.....	1,970	Traps set on vessels.....	53
Sidewalk lens lights replaced.....	200	Vessels trapped on.....	11
Old buildings:		Poisons placed on water front (pieces).....	3,600
Inspections made.....	499	Poisons placed within Panama-Pacific International Exposition grounds.....	41,000
Wooden floors removed.....	35	Bait used on water front and vessels, bacon (pounds).....	6
Yards and passageways, planking removed.....	16	Bread used in poisoning water front (loaves).....	9
Cubic feet new foundation walls installed.....	7,770	Poison used on water front (pounds).....	3
Concrete floors installed (square feet, 27,070).....	37	RATS COLLECTED AND EXAMINED FOR PLAGUE.	
Basements concreted (square feet, 26,050).....	35	Collected.....	412
Yards and passageways, etc., concreted (square feet, 24,643).....	84	Examined.....	345
Total area concrete laid (square feet).....	77,763	Found infected.....	None.
Floors rat proofed with wire cloth (square feet, 2,400).....	2	RATS IDENTIFIED.	
Buildings razed.....	20	Mus norvegicus.....	193
		Mus rattus.....	69
		Mus alexandrinus.....	101
		Mus musculus.....	49

SQUIRRELS COLLECTED AND EXAMINED FOR PLAGUE.

County.	Col- lected.	Exam- ined.	Found infected.
Monterey	324	324	(1)
Contra Costa	108	108	(1)
Total	432	432	(1)

¹ None.

RANCHES INSPECTED AND HUNTED OVER.

Monterey County	33
Contra Costa County	14
Total	47

RECORD OF PLAGUE INFECTION.

Places in California.	Date of last case of human plague.	Date of last case of rat plague.	Date of last case of squirrel plague.	Total number rodents found infected since May, 1907.
Cities:				
San Francisco	Jan. 30, 1908	Oct. 23, 1908	(1)	398 rats.
Oakland	Aug. 9, 1911	Dec. 1, 1908	(1)	126 rats.
Berkeley	Aug. 28, 1907	(1)	(1)	(1)
Los Angeles	Aug. 11, 1908	(1)	Aug. 21, 1908	1 squirrel.
Counties:				
Alameda (exclusive of Oakland and Berkeley)	Sept. 24, 1909	Oct. 17, 1909 ²	July 12, 1915	287 squirrels; 1 wood rat.
Contra Costa	July 13, 1915	(1)	Nov. 12, 1915	1,597 squirrels.
Fresno	(1)	(1)	Oct. 27, 1911	1 squirrel.
Merced	(1)	(1)	July 12, 1911	5 squirrels.
Monterey	(1)	(1)	Feb. 23, 1916	11 squirrels.
San Benito	June 4, 1913	(1)	Aug. 14, 1915	50 squirrels.
San Joaquin	Sept. 18, 1911	(1)	Aug. 26, 1911	18 squirrels.
San Luis Obispo	(1)	(1)	Jan. 29, 1910	1 squirrel.
Santa Clara	Aug. 31, 1910	(1)	July 23, 1913	25 squirrels.
Santa Cruz	(1)	(1)	May 17, 1910	3 squirrels.
Stanislaus	(1)	(1)	June 2, 1911	13 squirrels.

¹ None.² Wood rat.

The work is being carried on in the following-named counties: Alameda, Contra Costa, San Francisco, Stanislaus, San Benito, Monterey, Lassen, and Modoc.

LOUISIANA—NEW ORLEANS—PLAGUE ERADICATION.

The following report of plague-eradication work at New Orleans for the week ended March 18, 1916, was received from Surg. Creel, of the United States Public Health Service, in charge of the work:

OUTGOING QUARANTINE.

Vessels fumigated with sulphur	7
Vessels fumigated with cyanide gas	14
Sulphur used (pounds)	155
Cyanide used in cyanide-gas fumigation (pounds)	522
Sulphuric acid used in cyanide-gas fumigation (pints)	783
Clean bills of health issued	30
Foul bills of health issued	9

FIELD OPERATIONS.

Rodents trapped	8,327
Premises inspected	6,909
Notices served	983
Garbage cans installed	9

BUILDINGS RAT PROOFED.

By elevation	219
By marginal concrete wall	198
By concrete floor and wall	223
By minor repairs	479
Total buildings rat proofed	1,119
Concrete laid (square yards)	7,535
Premises—planking and shed flooring removed	200
Buildings demolished	101
Total buildings rat proofed to date (abated) ..	1,07,281

LABORATORY OPERATIONS.

Rodents received by species:	
Mus rattus	203
Mus norvegicus	1,078

LABORATORY OPERATIONS—continued.

Rodents received by species—Continued.	
Mus alexandrinus.....	242
Mus musculus.....	6,645
Wood rats.....	170
Muskrats.....	13
Putrid (included in enumeration of species).....	98
Total rodents received at laboratory.....	8,351
Rodents examined.....	2,065
Rats suspected of plague.....	140
Plague rats confirmed.....	2

PLAGUE RATS.

Case No. 281:	
Address, Farland Street, Westwego, La.	
Captured, Feb. 2, 1916.	
Diagnosed, Mar. 13, 1916.	
Treatment of premises: Intensive trapping.	
Case No. 282:	
Address, T. & P. railroad yard, McDonoghville, La.	

PLAGUE RATS—continued.

Case No. 282—Continued.	
Captured, Feb. 29, 1916.	
Diagnosed, Mar. 16, 1916.	
Treatment of premises: Intensive trapping.	
PLAGUE STATUS TO MAR. 18, 1916.	
Last case of human plague, Sept. 8, 1915.	
Last case of rodent plague, Mar. 16, 1916.	
Total number of rodents captured to Mar. 18.....	648,544
Total number of rodents examined to Mar. 18.....	336,776
Total cases of rodent plague to Mar. 18, by species:	
Mus musculus.....	6
Mus rattus.....	18
Mus alexandrinus.....	12
Mus norvegicus.....	246
Total rodent cases to Mar. 18, 1916...	282

WASHINGTON—SEATTLE—PLAGUE ERADICATION.

The following report of plague-eradication work at Seattle for the week ended March 11, 1916, was received from Surg. Lloyd, of the United States Public Health Service, in charge of the work:

RAT PROOFING.

New buildings inspected.....	25
New buildings reinspected.....	23
Basements concreted, new buildings (square feet, 19,240).....	11
Floors concreted, new buildings (square feet, 38,125).....	14
Yards, etc., concreted, new buildings (square feet, 7,260).....	6
Total concrete laid, new structures, square feet.....	64,625
New buildings, elevated.....	3
New premises rat proofed, concrete.....	25
Old buildings inspected.....	7
Premises rat proofed, concrete, old buildings.	4
Floors concreted, old buildings (square feet, 5,275).....	4
Wooden floors removed, old buildings.....	4
Doors rat proofed, old buildings.....	3
Buildings razed.....	3

LABORATORY AND RODENT OPERATIONS.

Dead rodents received.....	20
Rodents trapped and killed.....	342
Rodents recovered after fumigation.....	62
Total.....	424
Rodents examined for plague infection.....	273
Poison distributed, pounds.....	20
Bodies examined for plague infection.....	4

CLASSIFICATION OF RODENTS.

Mus rattus.....	15
Mus alexandrinus.....	105

CLASSIFICATION OF RODENTS—continued.

Mus norvegicus.....	239
Mus musculus.....	65

WATER FRONT.

Vessels inspected and histories recorded.....	14
Vessels fumigated.....	3
Sulphur used, pounds.....	1,950
New rat guards installed.....	12
Defective rat guards repaired.....	32
Fumigation certificates issued.....	3
Port sanitary statements issued.....	40
The usual day and night patrol was maintained to enforce rat guarding and fending.	

MISCELLANEOUS WORK.

Rat-proofing notices sent to contractors, new buildings.....	8
Letters sent in re rat complaints.....	3
Lectures on sanitary measures.....	2
New restaurants inspected.....	6

RODENTS EXAMINED IN EVERETT.

Mus norvegicus trapped.....	44
Mus norvegicus found dead.....	1
Mus alexandrinus trapped.....	3
Mus musculus trapped.....	1
Total.....	49

Rodents examined for plague infection.....	47
Rodents proven plague infected.....	None.

¹Indicates number of rodents the tissues of which were inoculated into guinea pigs. Most of them showed on necropsy only evidence of recent inflammatory process; practically none presented gross lesions characteristic of plague infection.

RAT-PROOFING OPERATIONS IN EVERETT.

New buildings inspected.....	5
New buildings, concrete foundations.....	3
New buildings elevated 18 inches.....	2
New buildings, yards concreted (square feet, 260).....	1
Total concrete laid, new buildings (square feet).....	160

RODENTS EXAMINED IN TACOMA.

Mus norvegicus trapped.....	126
Mus norvegicus found dead.....	2
Mus rattus trapped.....	3
Mus alexandrinus trapped.....	1
Total.....	132
Rodents examined for plague infection.....	132
Rodents proven plague infected.....	None.

HAWAII—PLAGUE PREVENTION.

The following reports of plague-prevention work in Hawaii were received from Surg. Trotter, of the United States Public Health Service:

Honolulu.

WEEK ENDING MAR. 4, 1916.

Total rats and mongoose taken.....	325	Classification of rats killed, etc.—Continued.	
Rats trapped.....	314	Mus norvegicus.....	1
Mongoose trapped.....	3	Mus rattus.....	3
Rats killed by sulphur dioxide.....	8	Average number of traps set daily.....	984
Examined microscopically.....	278	Cost per rat destroyed.....	23½ cents.
Showing plague infection.....	None.	Last case rat plague, Aiea, 9 miles from Honolulu, Apr. 12, 1910.	
Classification of rats trapped:		Last case human plague, Honolulu, July 12, 1910.	
Mus alexandrinus.....	149	Last case rat plague, Paauhau, Hawaii, Jan. 18, 1916.	
Mus musculus.....	95	Last case human plague Paauhau Plantation, Hawaii, Dec. 16, 1915.	
Mus norvegicus.....	35		
Mus rattus.....	35		
Classification of rats killed by sulphur dioxide:			
Mus alexandrinus.....	4		

Hilo.

WEEK ENDED FEB 26, 1916.

Rats and mongoose taken.....	3,072	Classification of rats trapped and found dead—Continued.	
Rats trapped.....	3,038	Mus rattus.....	893
Mongoose taken.....	34	Mus musculus.....	1,193
Rats and mongoose examined macroscopically.....	3,072	Last case of rat plague, Paauhau Sugar Co., Paauhau, Jan. 18, 1916.	
Rats and mongoose plague infected.....	None.	Last case of human plague, Paauhau Sugar Co., Paauhau, Dec. 16, 1915.	
Classification of rats trapped and found dead:			
Mus norvegicus.....	467		
Mus alexandrinus.....	482		

PORTO RICO—PLAGUE PREVENTION.

The following table shows the number of rats and mice examined in Porto Rico for plague infection during the two weeks ended March 10, 1916. No plague infection was found.

Place.	Rats.	Mice.
San Juan.....	139	19
Puerta de Tierra.....	94
Sancti Spiritus.....	170	1
Rio Piedras.....	1